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**Hepatic fibrosis disease markers comprising polynucleotides or antibodies, useful for improved diagnosis, screening and developing drugs to treat hepatitis, to control cirrhosis and carcinoma**

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Patent Family ( 1 patents, 1 & countries )

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JP 2003259877	A	20030916	JP 200265013	A	20020311	200377	B

Priority Applications (no., kind, date): JP 200265013 A 20020311

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2003259877	A	JA	313	0	

**Alerting Abstract JP A**

NOVELTY - A hepatic-fibrosis disease marker which consists of a polynucleotide which has at least 15 continuous bases from a sequence of sequence number 1-333, and/or a polynucleotide complementary to this polynucleotide, is new.

DESCRIPTION - INDEPENDENT CLAIMS are also included for:

1. disease marker of hepatic fibrosis which is an antibody which recognizes a protein of amino acid sequence number 334-379;
2. detection of hepatic fibrosis, comprising:
  - A. combining RNA prepared from a biological sample, or its complementary polynucleotide with the disease marker;
  - B. measuring the amount of marker bound; and
  - C. judging the hepatic fibrosis based on the difference in the result from normal controls, where disease is associated with increase of binding of sequence 1-262 or reduction of 263-333;
3. detection of hepatic fibrosis, comprising combining protein from a biological sample, with the disease marker of (2), measuring the amount of marker bound, and judging the hepatic fibrosis based on the result, where disease is associated with increase of binding of sequence 334-369, and a decrease of binding of sequence 370-379;
4. screening for substances which alter the expression of a gene of sequence number 1-333 or a protein of sequence number 334-379;
5. therapeutic agents of a hepatic fibrosis which suppress expression of a gene of sequence number 1-262 or protein of sequence number 334-369, or enhance expression of a gene of sequence number 263-333 or protein of sequence number 370-379.

USE - For detecting and treating hepatic fibrosis caused by alcohol consumption, virus infection, etc., and the associated chronic hepatitis, etc. leading to liver cirrhosis and hepatic carcinoma.

ADVANTAGE - The markers allow the cause of hepatic fibrosis to be clarified (diagnostic precision), so more suitable treatments can be developed and given.

### Technology Focus

BIOTECHNOLOGY - Preferred markers: The markers are used as probes or primers.

**Title Terms /Index Terms/Additional Words:** HEPATO; FIBROSIS; DISEASE; MARK; COMPRISE; ANTIBODY; USEFUL; IMPROVE; DIAGNOSE; SCREEN; DEVELOP; DRUG; TREAT; CONTROL; CIRRHOSIS; CARCINOMA

### Class Codes

International Patent Classification					
IPC	Class Level	Scope	Position	Status	Version Date
A61K-0045/00	A	I	L	R	20060101
A61P-0001/16	A	I	L	R	20060101
C12N-0015/09	A	I	L	R	20060101
C12Q-0001/02	A	I	L	R	20060101
C12Q-0001/68	A	I	L	R	20060101
G01N-0033/15	A	I	L	R	20060101
G01N-0033/50	A	I	F	R	20060101
G01N-0033/53	A	I	L	R	20060101
G01N-0033/566	A	I	L	R	20060101
A61K-0045/00	C	I	L	R	20060101
A61P-0001/00	C	I	L	R	20060101
C12N-0015/09	C	I	L	R	20060101
C12Q-0001/02	C	I	L	R	20060101
C12Q-0001/68	C	I	L	R	20060101
G01N-0033/15	C	I	L	R	20060101
G01N-0033/50	C	I	F	R	20060101
G01N-0033/53	C	I	L	R	20060101
G01N-0033/566	C	I	L	R	20060101

File Segment: CPI; EPI

DWPI Class: B04; D16; S03

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Manual Codes (CPI/A-N): B04-E01; B04-F11; B04-G01; B04-N02; B11-C07A; B11-C08E5; B12-

K04A; B12-K04A4; B12-K04F; D05-H06A; D05-H09; D05-H11; D05-H12D1

### **Chemical Indexing**

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### **Original Publication Data by Authority**

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**MARKER FOR HEPATIC FIBROSIS DISEASE AND APPLICATION OF THE SAME**

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